

## ABSTRACT

Systems and methods are described for supporting routing intelligence for evaluating routing paths based on performance measurements. The routing intelligence may include processes executed in a self-contained device. This device may control one or more edge routers, based on performance data from end users. In other embodiments, the routing intelligence device may be used solely to monitor one or more edge routers, producing reports but not effecting any changes to routing. Routing decisions may be injected to the edge routers via BGP updates. The devices may be stationed at the premises of a multihomed organization, such as an enterprise, ISP, government organization, university, or other organization supporting a sub-network coupled to an internetwork. In other embodiments, the routing intelligence comprises processes executed on a router.